

FORM PTO-1449(Modified)	ATTY. DOCKET NO.: M0656/7055(HCL)	SERIAL NO.: 09/557,997
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT: Venkataraman et al.	
	FILING DATE: April 24, 2000	GROUP: 2782

U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
	A1	4,281,108	07/28/81	Fussi	536	21	
	A2	4,341,869	07/27/82	Langer, Jr. et al.	435	232	
	A3	4,373,023	02/08/83	Langer et al.	435	2	
	A4	4,396,762	08/02/83	Langer et al.	536	21	
	A5	4,443,545	04/17/84	Langer, Jr. et al.	435	232	
	A6	4,745,105	05/17/88	Griffin et al.	514	56	
	A7	4,757,056	07/12/88	Van Gorp et al.	514	54	
	A8	4,942,156	07/17/90	Foley et al.	514	56	
	A9	4,990,502	02/05/91	Lormeau et al.	514	56	
	A10	5,010,063	04/23/91	Piani et al.	514	56	
	A11	5,039,529	08/13/91	Bergendal et al.	424	630	
	A12	5,106,734	04/21/92	Nielsen	435	84	
	A13	5,152,784	10/06/92	Tsilibary	623	1	
	A14	5,164,378	11/17/92	Conti et al.	514	56	
	A15	5,169,772	12/08/92	Zimmermann et al.	435	232	
	A16	5,204,323	04/20/93	Findlay et al.	514	2	
	A17	5,252,339	10/12/93	Cristofori et al.	424	479	
	A18	5,262,325	11/16/93	Zimmermann et al.	435	269	
	A19	5,290,695	03/01/94	Morikawa et al.	435	232	
	A20	5,338,677	08/16/94	Zimmermann et al.	435	200	
	A21	5,389,539	02/14/95	Sasisekharan et al.	435	220	
	A22	5,474,987	12/12/95	Cohen et al.	514	56	
	A23	5,567,417	10/22/96	Sasisekharan et al.	424	94.5	
	A24	5,569,600	10/29/96	Sasisekharan et al.	435	220	
	A25	5,576,304	11/19/96	Kakkar et al.	514	56	
	A26	5,599,801	02/04/97	Branellec et al.	514	56	
	A27	5,618,917	04/08/97	Toback et al.	530	350	
	A28	5,619,421	04/08/97	Venkataraman et al.	364	496	
	A29	5,681,733	10/28/97	Su et al.	435	232	
	A30	5,714,376	02/03/98	Sasisekharan et al.	435	252.3	
	A31	5,744,515	04/28/98	Clapper	523	113	
	A32	5,753,445	05/19/98	Fillit et al.	435	7.1	
	A33	5,763,427	06/09/98	Weitz et al.	514	56	
	A34	5,922,358	07/13/99	Doutremepuich et al.	424	553	
	A35	5,795,875	08/18/98	Holme et al.	514	56	
	A36	5,808,021	09/15/98	Holme et al.	536	21	
	A37	5,824,299	10/20/98	Luster et al.	424	85.1	
	A38	5,830,726	11/03/98	Sasisekharan et al.	435	172.3	
	A39	5,919,693	07/06/99	Su et al.	435	252.3	

A40	5,997,863	12/07/99	Zimmermann et al.	424	94.5	
A41	6,013,628	01/11/00	Skubit et al.	514	12	

FOREIGN PATENT DOCUMENTS

	Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes No
B1	EP 0 433 225 A1	06/19/91	Ciba-Geigy AG	C07K	7/10	
B2	EP 0 557 887 A2	09/01/93	Opocrin S.p.A.	C08B	37/10	
B3	WO 93/08289	04/29/93	Massachusetts Institute of Technology	C12N	15/60	
B4	WO 93/19096	09/30/93	Cancer Research Campaign Techn. Ltd.	C08B	37/10	
B5	WO 94/21689	09/29/94	Cancer Research Campaign Techn. Ltd.	C08B	37/10	
B6	WO 95/34635	12/21/95	IBEX Technologies	C12N	1/21	
B7	PCT/US96/17310	10/30/96	PCT Search Report			
B8	WO 97/16556	05/09/97	Massachusetts Institute of Technology	C12N	15/60	
B9	PCT/US99/19841	01/27/00	PCT Search Report			

OTHER ART

(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

C1	Alderman, C. et al., "Continuous Subcutaneous Heparin Infusion for Treatment of Trousseau's Syndrome", <i>Ann Pharmacother</i> , Jul-Aug 1995, 29:(7-8):710-713
C2	Baumann, U. et al., "Three-dimensional structure of the alkaline protease of <i>Pseudomonas aeruginosa</i> : a two-domain protein with a calcium binding parallel beta roll motif", <i>The EMBO Journal</i> , Vol. 12, No. 9, Pages 3357-3364, 1993
C3	Bernstein, H. et al., "Immobilized Heparin Lyase System for Blood Deheparinization", <i>Methods in Enzymology</i> , Vol. 137, Pages 515-529, 1988
C4	Cardin, A.D. et al., "Molecular Modeling of Protein-Glycosaminoglycan Interactions", <i>Arteriosclerosis</i> , Vol. 9, No. 1, January/February 1989, Pages 21-32
C5	Cohen, F. E., "The Parallel β Helix of Pectate Lyase C: Something to Sneez At", <i>Science</i> , Vol. 260, June 4, 1993, Pages 1444-1445
C6	Comfort, A.R. et al., "Immobilized Enzyme Cellulose Hollow Fibers: III. Physical Properties and <i>In Vitro</i> Biocompatibility", <i>Biotechnology and Bioengineering</i> , Vol. 34, Pages 1383-1390, 1989
C7	Feingold, D.S. et al., "Conformational aspects of the reaction mechanisms of polysaccharide lyases and epimerases", <i>FEBS Letters</i> , Vol. 223, No. 2, November, 1987, Pages 207-211
C8	Franklin, M.J. et al., "Pseudomonas Aeruginosa AlgG is a Polymer Level Alginate C5-Mannuronan Epimerase", <i>Journal of Bacteriology</i> , Vol. 176, No. 7, April 1994, Pages 1821-1830
C9	Gaceta, P., "Alginate-modifying enzymes - A proposed unified mechanism of action for the lyases and epimerases", <i>FEBS Letters</i> , Vol. 212, No. 2, February 1987, Pages 199-202
C10	Godavarti R. et al., "Heparinase I from <i>Flavobacterium heparinum</i> . Identification of a Critical Histidine Residue Essential for Catalysis as Probed by Chemical Modification and Site-Directed Mutagenesis", <i>Biochemistry</i> , Vol. 35, No. 21, 1996, Pages 6846-6852
C11	Enriquez-Harris, P. et al., "Growth Factors and the Extracellular Matrix", <i>Meeting Report</i> , Trends in Cell Biology, 1994
C12	Hart, G.W., "Glycosylation", <i>Current Opinion in Cell Biology</i> , 1992, 4:1017-1023
C13	Higuchi, R., "Recombinant PCT", <i>PCR Protocols: A Guide to Methods and Applications</i> , Academic Press, Inc., 1990, Pages 177-183

C14	Huang, J.N. et al., "Low-Molecular-Weight Heparins", <i>Coagulation Disorders</i> , Vol. 12, No. 6, December 1998, Pages 1251-1277
C15	Jackson, R.L. et al., "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Reviews</i> , Vol. 71, No. 2, April 1991, Pages 481-539
C16	Kakkar, A. et al., "Venous Thromboembolism and Cancer", <i>Baillieres Clin Haematol</i> , September 1998, 11(3):675-687
C17	Kretsinger, R.H. et al., "Structure and Evolution of Calcium-Modulated Proteins", <i>CRC Critical Reviews in Biochemistry</i> , Vol. 8, Issue 2, July 1980, Pages 119-174
C18	Leckband, D. et al., "An Approach for the Stable Immobilization of Proteins", <i>Biotechnology and Bioengineering</i> , (1991), Vol. 37, Pages 227-237
C19	Leckband, D. et al., "Characterization of the Active Site of Heparinase", Abstracts for Papers from the Fourth Chemical Congress of North America, Vol. 202, No. 1, August 1991, New York, Page a56
C20	Lewin, B., "Cells Obey the Laws of Physics and Chemistry", <i>GENES V</i> , 1994, Page 13
C21	Linhardt, R.J. et al., "Review Polysaccharide Lyases", <i>Applied Biochemistry and Biotechnology</i> , Vol. 12, 1986, Pages 135-176
C22	Linhardt, R.J. et al., "Examination of the Substrate Specificity of Heparin and Heparan Sulfate Lyases", <i>Biochemistry</i> , Vol. 29, No. 10, 1990, Pages 2611-2617
C23	Linhardt, R.J. et al., "Production and Chemical Processing of Low Molecular Weight Heparins", <i>Seminars in Thrombosis and Hemostasis</i> , Vol. 25, Suppl. 3, 1999, Pages 5-16
C24	Lohse, D.L. et al., "Purification and Characterization of Heparin Lyases from <i>Flavobacterium heparinum</i> ", <i>The Journal of Biological Chemistry</i> , Vol. 267, No. 34, Issue of December 5, 1992, Pages 24347-24355
C25	Lustig, F. et al., "Alternative Splicing Determines the Binding of Platelet-Derived Growth Factor (PDGF-AA) to Glycosaminoglycans", <i>Biochemistry</i> , Vol. 35, No. 37, 1996, Pages 12077-12085
C26	Sasisekharan, R. et al., "Cloning and expression of heparinase I gene from <i>Flavobacterium heparinum</i> ", <i>Proc Natl Acad Sci USA</i> , Vol. 90, Pages 3660-3664, April 1993
C27	Sasisekharan, R. et al., "Heparinase inhibits neovascularization", <i>Proc Natl Acad Sci USA</i> , Vol. 91, Pages 1524-1528, February 1994
C28	Sasisekharan, R. et al., "Heparinase I from <i>Flavobacterium heparinum</i> : The Role of the Cysteine Residue in Catalysis as Probed by Chemical Modification and Site-Directed Mutagenesis", <i>Biochemistry</i> , Vol. 34, No. 44, Pages 14441-14448, 1995
C29	Sasisekharan, R. et al., "Heparinase I from <i>Flavobacterium heparinum</i> ", <i>The Journal of Biological Chemistry</i> , Vol. 271, No. 6, Issue February 9, 1996, Pages 3124-3131
C30	Shriver, Z. et al., "Heparinase II from <i>Flavobacterium heparinum</i> : Role of Histidine Residues in Enzymatic Activity as Probed by Chemical Modification and Site-Directed Mutagenesis", <i>The Journal of Biological Chemistry</i> , Vol. 273, No. 17, April 1998, Pages 10160-10167
C31	Shriver, Z. et al., "Heparinase II from <i>Flavobacterium heparinum</i> : Role of Cysteine in Enzymatic Activity as Probed by Chemical Modification and Site-Directed Mutagenesis", <i>The Journal of Biological Chemistry</i> , Vol. 273, No. 36, Sept 1998, Pages 22904-22912
C32	Valentine, K.A. et al., "Low-Molecular-Weight Heparin Therapy and Mortality", <i>Seminars in Thrombosis and Hemostasis</i> , Vol. 23, No. 2, 1997, Pages 173-178
C33	Yang, V.C. et al., "Purification and Characterization of Heparinase from <i>Flavobacterium heparinum</i> ", <i>The Journal of Biological Chemistry</i> , Vol. 260, No. 3, February 1985, Pages 1849-1857
C34	Yoder, M.D. et al., "Unusual structural features in the parallel β -helix in pectate lyases", <i>Structure</i> , December 1993, Vol. 1, No. 4, Pages 241-251
C35	Yoder, M.D. et al., "New Domain Motif: The Structure of Pectate Lyase C., a Secreted Plant Virulence Factor", <i>Science</i> , Vol. 260, Pages 1503-1506, June 4, 1993

		C36	Zucharski, L. et al., "Blood Coagulation Activation in Cancer: Challenges for Cancer Treatment", <i>Hemostaseologie</i> , 1995,
			15:14-20

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to applicants.